Formal Drawing - Sheet 2 of 4

Title: REFINED PLANT TRANSFORMATION
Applicant: J. Troy WEEKS et al.

Serial No.: 10/667,145

Filing Date: September 22, 2003
Docket No.: 058951-0172

Atty: Richard C. Peet, Foley & Lardner LLP

## Figure 2

CAH CAH-H1 CAH-H2	MSSSEVKANGWTAVPVSAKAIVDSLGKLGDVSSYSVEDIAFPAADKLVAEAQAFVKARLS 60 MCQNEVEVNGWTSMPADAGAIFDGGPFINVPEALSIEEIKFPVDDPIVEKTMRYAKAALP 60MSQYGFVRVPREVEKAIPVVNAPRPRAVVPPPNSETARLVREYAAKELT 49 :
CAH CAH-H1 CAH-H2	PETYNHSMRVFYWGTVIARRLLPEQAKDLSPSTWALTCLLHD 102 TETFNHSMRVYYYGMQDCASHGVLINRSQALGMAITKQQFPKQASALSPSTWALTCLLHD 120 APVLNHSLRVFQYSVAIIRDQFPAWDLDQEVLYVTCLLHD 89 ***:**: : * * * :*******
CAH CAH-H1 CAH-H2	VGTAEAYFTSTRMSFDIYGGIKAMEVLK-VLGSSTDQAEAVAEAIIRHEDVGVDGNITFL 161 IGTSDHNLAATRMSFDIYGGIKALEVLK-GFGATSDQAEAVAEAIIRHQDLGVHGTITYI 179 IATTDKNMRATKMSFEYYGGILSRELVFNATGGNQDYADAVTEAIIRHQDLTGTGYITTL 149 :.*:: ::*:***: * * * * : * : * : * * * *
CAH CAH-H1 CAH-H2	GQLIQLATLYDNVGAYDGIDDFGSWVDDTTRNSINTAFPRHGWCSWFACTVRKEESNKPW 221 GQLIQLATIYDNVGAHPYVKDFGELIHDTTRSQVHEAHPPGEWRTFFSGVIQKEQAIKPW 239 GLILQIATTLDNVGSNTDLIHIDTVSAINEQFPRLHWLSCFATVVDTENSRKPW 203 * ::*:** ****: . :. * :: .* * : *: .*: .
CAH CAH-H1 CAH-H2	CHTTHIPQ-FDKQMEANTLMKPWE 244 CHTKKMVN-VLRKGSRHPDGQ 259 GHTSSLGDDFSKKVICNTFGYN 225 **.:::::::

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## Figure 3

Ubi4	AAGCAAACGGTATAGCAACGGTGTTAACCTGATCTAGTGATCTCTTGCAATCCTTAACGG	50
UbiN	AAGCAAAGGGTATGGCAACTGTGTCACCGCCCTTCGCTGCGTGTTAACGG	50
	*****	
Ubi4	CCACCTACCGCAGGTAGCAAACGGCGTCCCCCTCCTCGATATCTCCGCGGCGACCTCTGG	120
UbiN	CCACCAACCGCAGGTAGCAAACGGCGTGCACCTTCCCGAGATCTCCACAGCGAGGTCTGG	110
	**** *********** * *** * * * * * * * * *	
Ubi4	CTTTTTCCGCGGAATTGCGCGGTGGGGACGGATTCCACAACCGCGACGCAA-CCGCCTCT	179
UbiN	CTTTTTCCGCCTTCCCG-GAAACCGCGGTGGTTTCAGCGTGGCGGATTCCCCCTCC	165
	******* * * * * * * * * * * * * * * * *	
Ubi4	CGCCGCTGGGCCCCACACCGCTCGGTGCCGTAGCCTCACGGGACTCTTTCTCCCTCC	239
UbiN	CACCACCCAACCGC-CATAAATACCAGCCCCCACCTCACTCTCTTTGCATATCCATC	
	* ** * ** * * * * * * * * * * * * * * *	
Ubi4	CCCGTTATAAATTGGCTTCATCCCCTCCTTGCCTC 274	
UbiN	CAAATCCCAGTCCCCAATC 240	
	* * * * * *	

Formal Drawing - Sheet 4 of 4
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Figure 4. GUS-expression in Agrobacteroum-infected alfalfa seedlings

